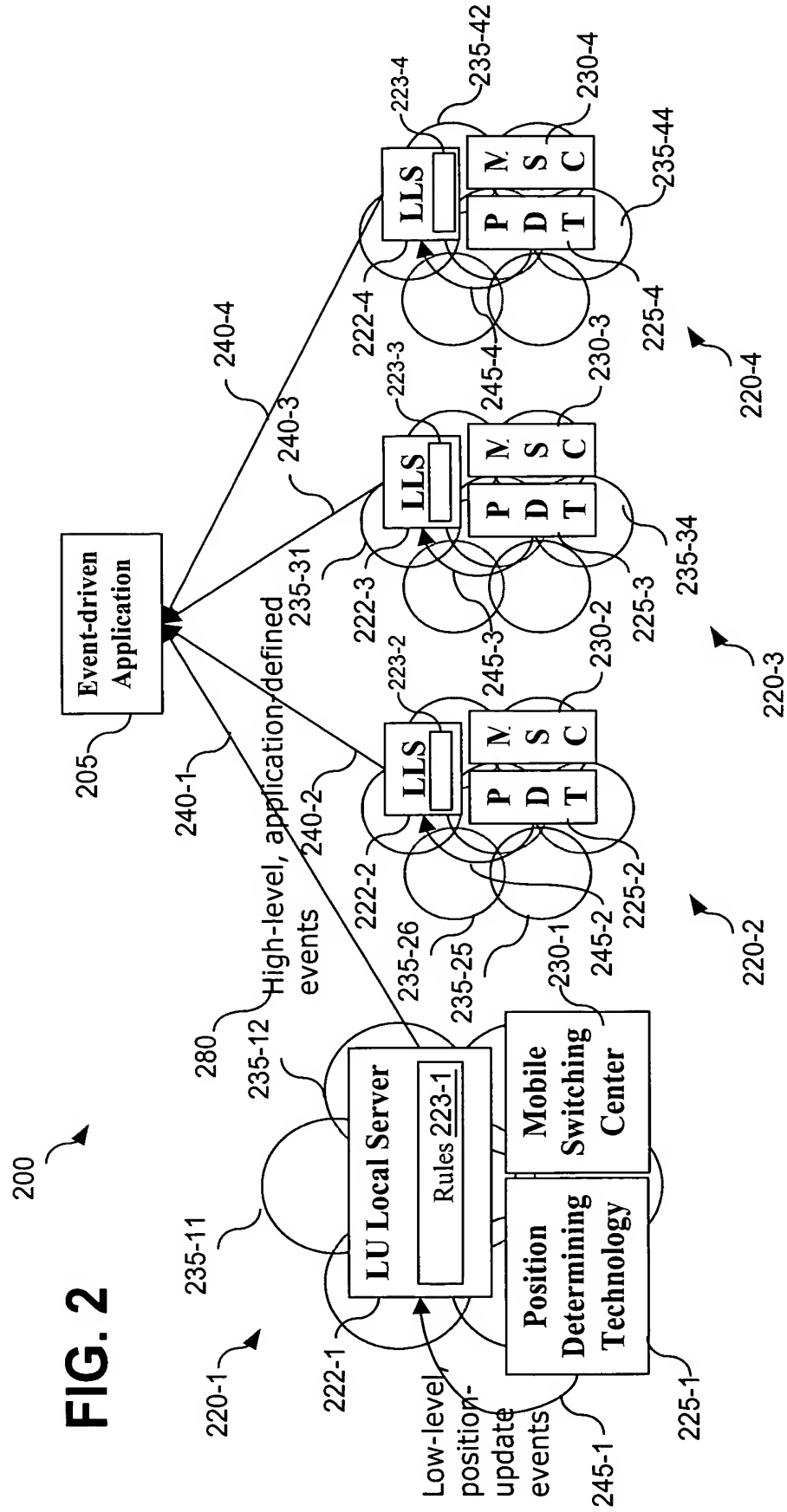


**FIG. 2**



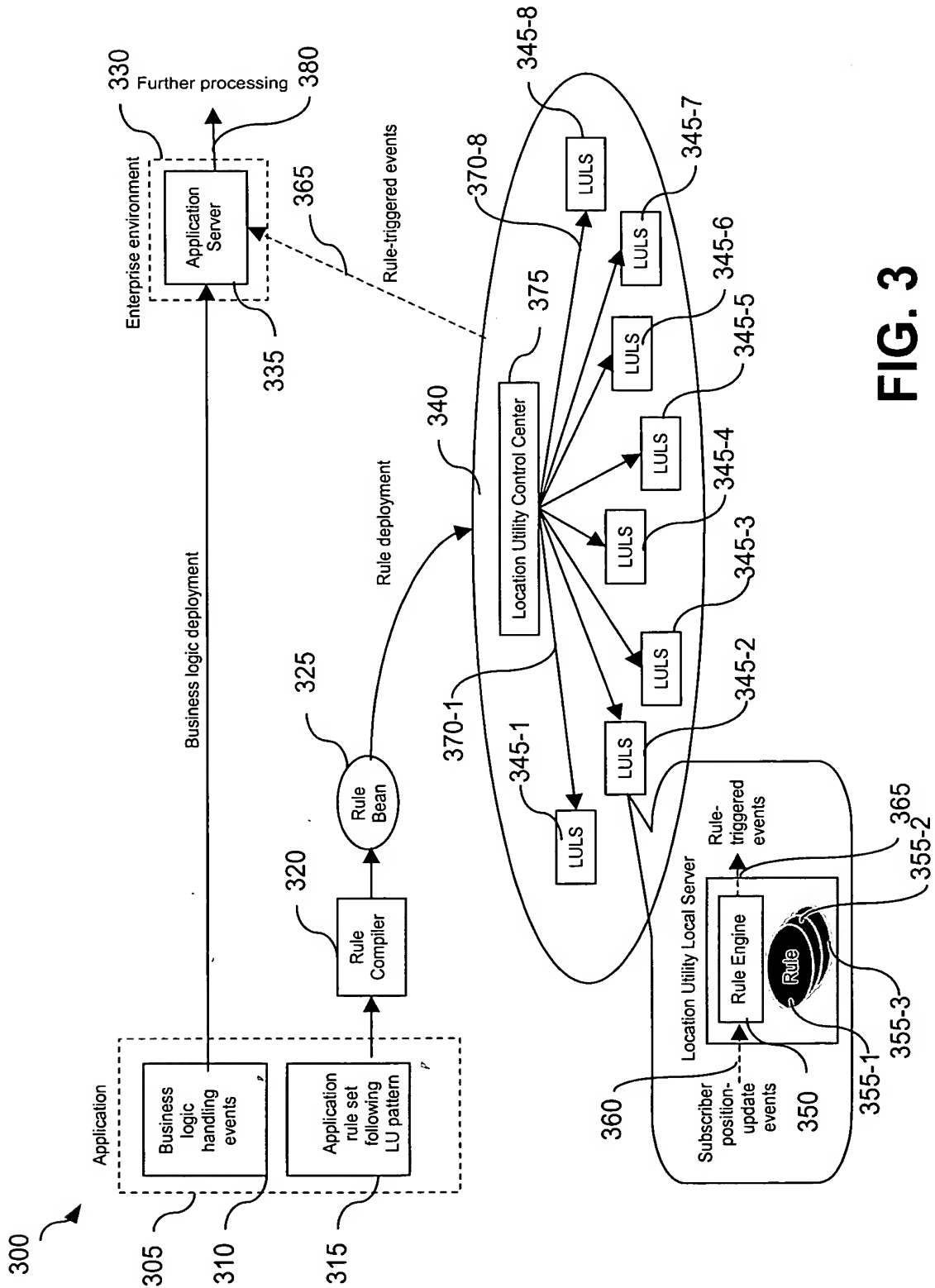


FIG. 3

```

spatial_rule → rule_expr
rule_expr → rule_expr OR rule_expr
           | rule_expr AND rule_expr
           | NOT rule_expr
           | rule_func
rule_func → containedIn {polygon | polygonClass+}
           | withinDistanceOf entity distance
           | hasIdentity {subscriber | subscriberClass+}
           | scalar_func {< | <= | == | != | >= | >} scalar_func
           | timer period {subscriber | subscriberClass+}
           → representation of a polygon
polygon → string literal
subscriber → subscriber | subscriberClass+ | point | pointClass+
entity → scalar_func
distance → representation of a point
point → SPRField component
scalar_func → distanceFrom {subscriber | point}
           | distanceTraveledSince {point | time} {route | path}
           | constant numeric literal
           | reference resourceID
component → X | Y | Z | SPEED | BEARING | TIME | ...
resourceID → string literal

```

**FIG. 4**

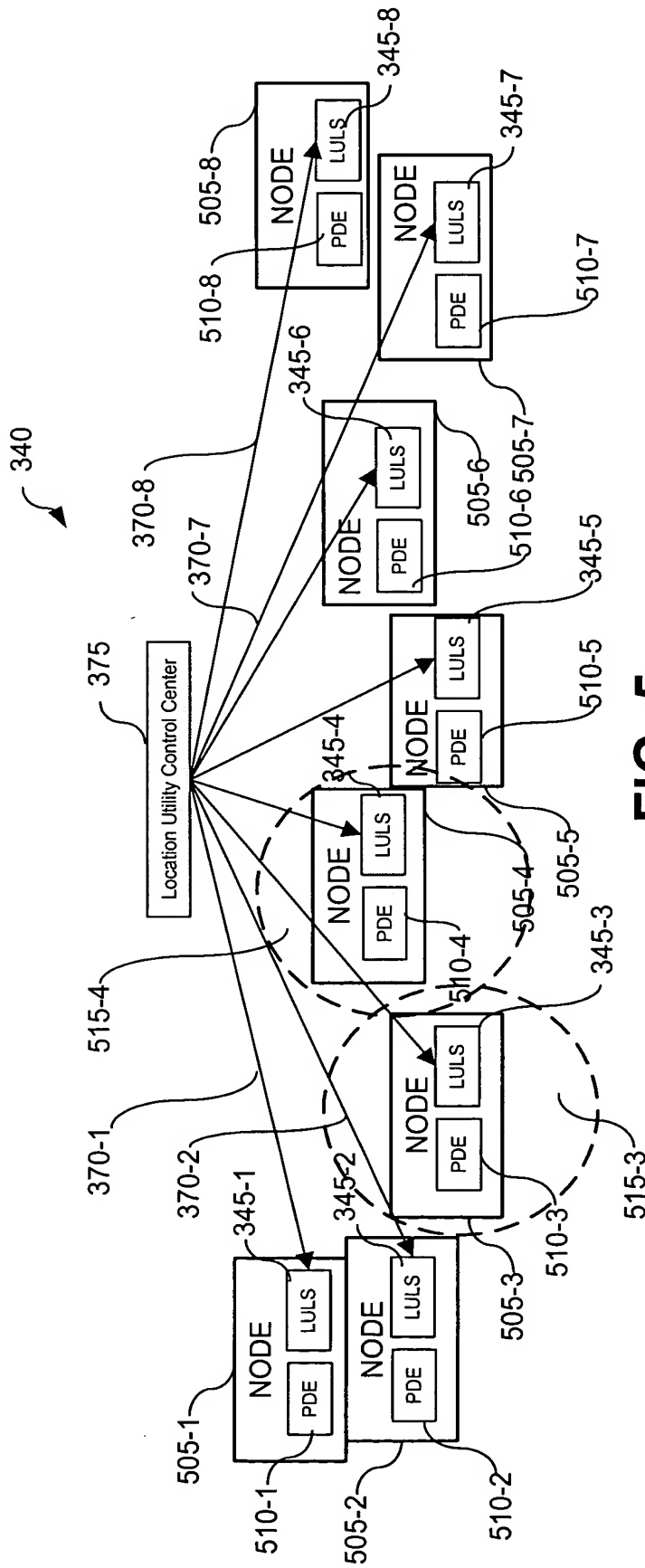
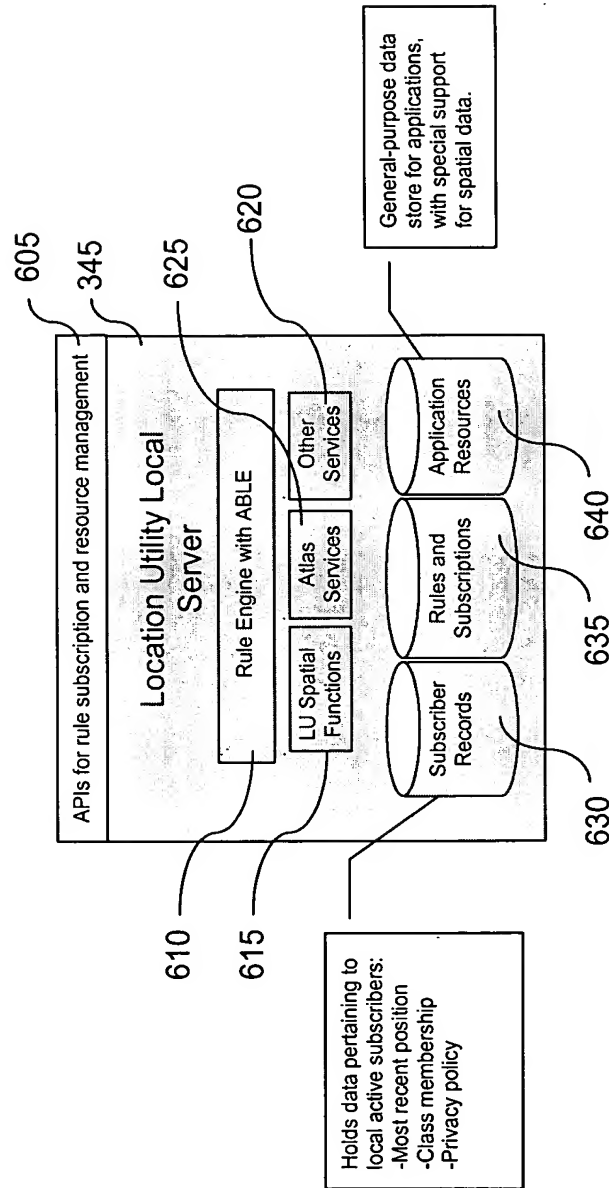
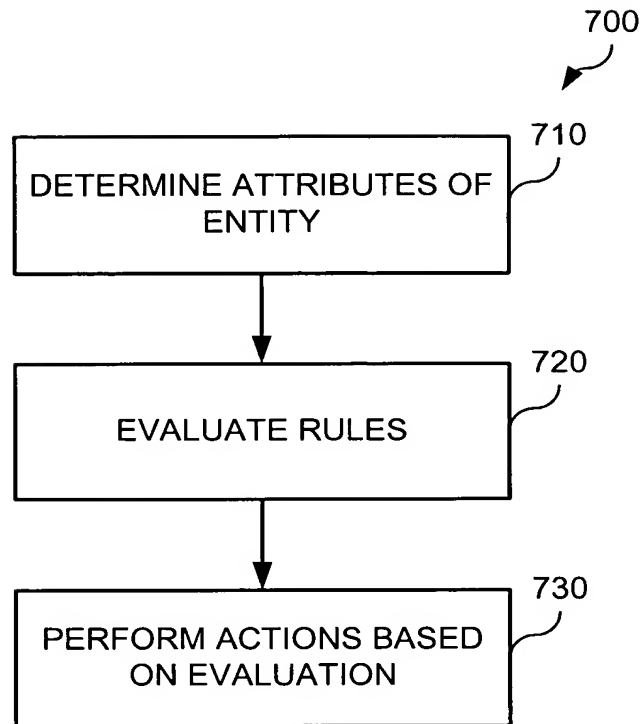


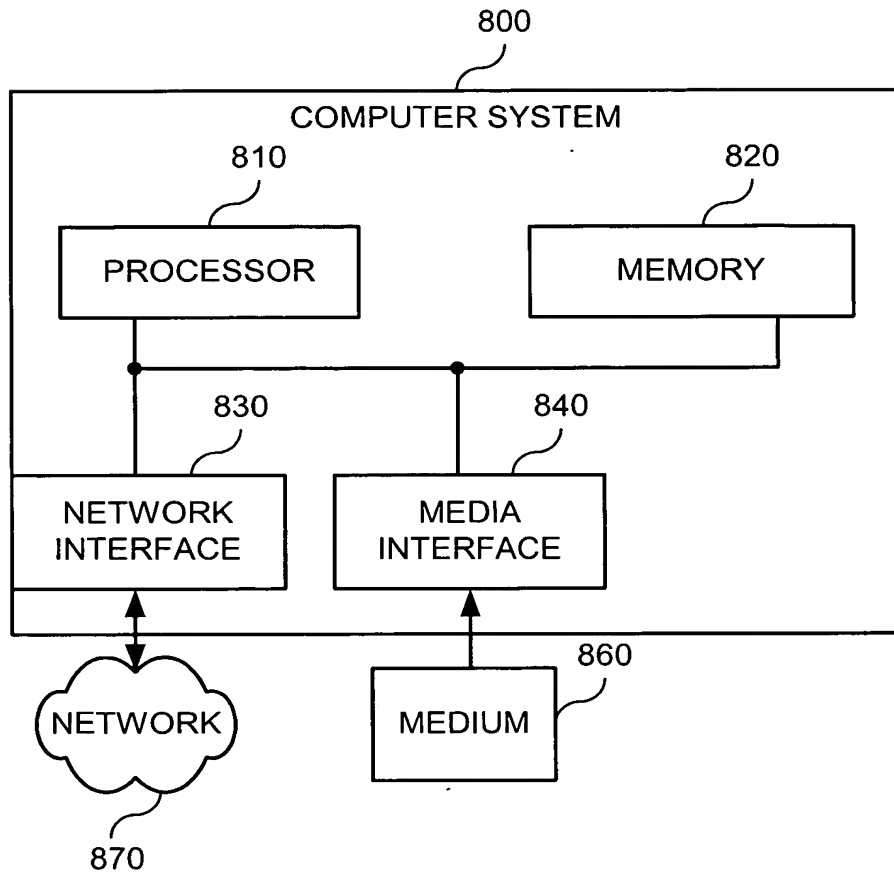
FIG. 5



**FIG. 6**



**FIG. 7**



**FIG.8**